



PATENT ABSTRACTS OF JAPAN

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(54) **FULL-COLOR ORGANIC EL DISPLAY DEVICE
 AND ITS PRODUCTION**

(57) Abstract:

PROBLEM TO BE SOLVED: To inexpensively produce a full-color display of a large screen by forming respective transparent pixel electrodes of red, green and blue on a transparent substrate, forming red and green color developing layers only on the red and green transparent pixel electrodes and a blue color developing layer over the entire surface and forming counter electrodes on the upper layers thereof.

SOLUTION: The red transparent pixel electrodes 101, the green transparent pixel electrodes 102 and the blue transparent pixel electrodes 103 are formed on the transparent substrate 104. The red org. light emitting layer 106 and the green org. light emitting layer 107 are formed only on the red and green transparent pixel electrodes 101, 102 and the green org. light emitting layer 109 is formed over the entire surface. Further, the counter electrodes 110 are formed on the upper layers thereof. The formation of the org. light emitting layers 106, 107 is executed by patterning and applying red and green org. light emitting materials by an ink jet method and the formation of the blue org. light emitting layer 109 is executed by a vacuum vapor deposition method, etc., by which the full-color display is obtd. The red and green org. light emitting layers 106, 107 are polyparaphenylene vinylene and their derivatives and the copolymers consisting of thereof as basic units.

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